

Missouri  
Department of  
Natural Resources

Use Attainability Analysis

for

WBID 0650 Upper Shoal Creek

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources  
Water Protection Program

**Field Data Sheets for Recreational Use Stream Surveys**

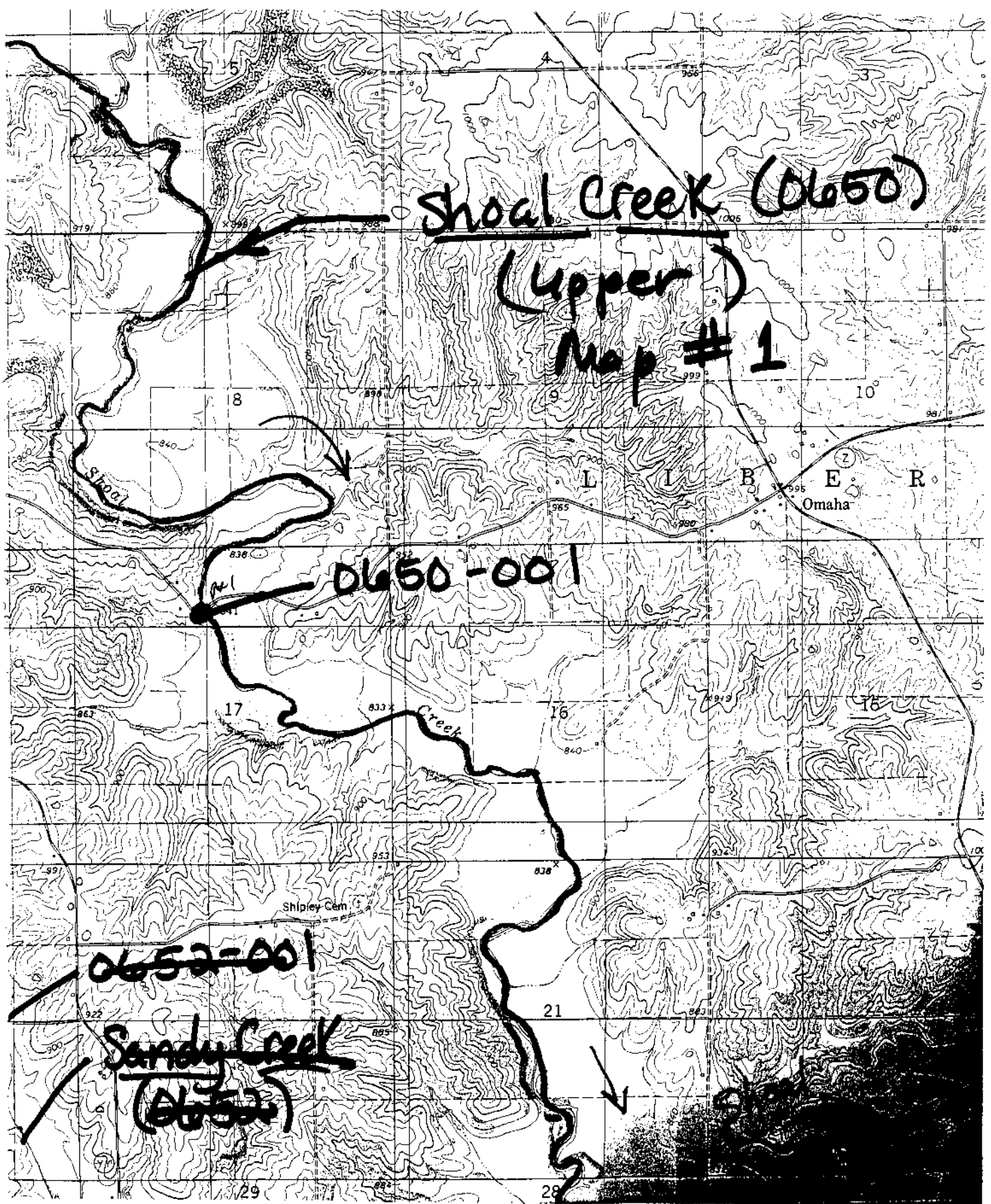
RECEIVED  
JUL 12 2005  
WATER PROTECTION PROGRAM

**Data Sheet A - Water Body Identification**

Water Body Name (from USGS 7.5' quad):	Shoal Creek (Upper)
8-digit HUC:	10280201
Missouri WBID #:	0650
County:	Putnam
Upstream Legal Description:	NW $\frac{1}{4}$ , SW $\frac{1}{4}$ , Sec. 5, T 66N, R 17W
Downstream Legal Description:	NE $\frac{1}{4}$ , SW $\frac{1}{4}$ , Sec. 27, T 66N, R 17W
Upstream Coordinates:	40.52779N / 92.83525 W 11.9 Feet
Downstream Coordinates:	40.49039N / 92.801528W 13 ft
Discharger Facility Name(s):	
Discharger Permit Number(s):	
Number of Sites Evaluated:	(2) (2 up stream) (1 down stream) (3 total)
Name of Surveyor and Telephone Number:	Dave Dowdy 660-385-7996
Organization:	SWCP
Position:	Soil Scientist III

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

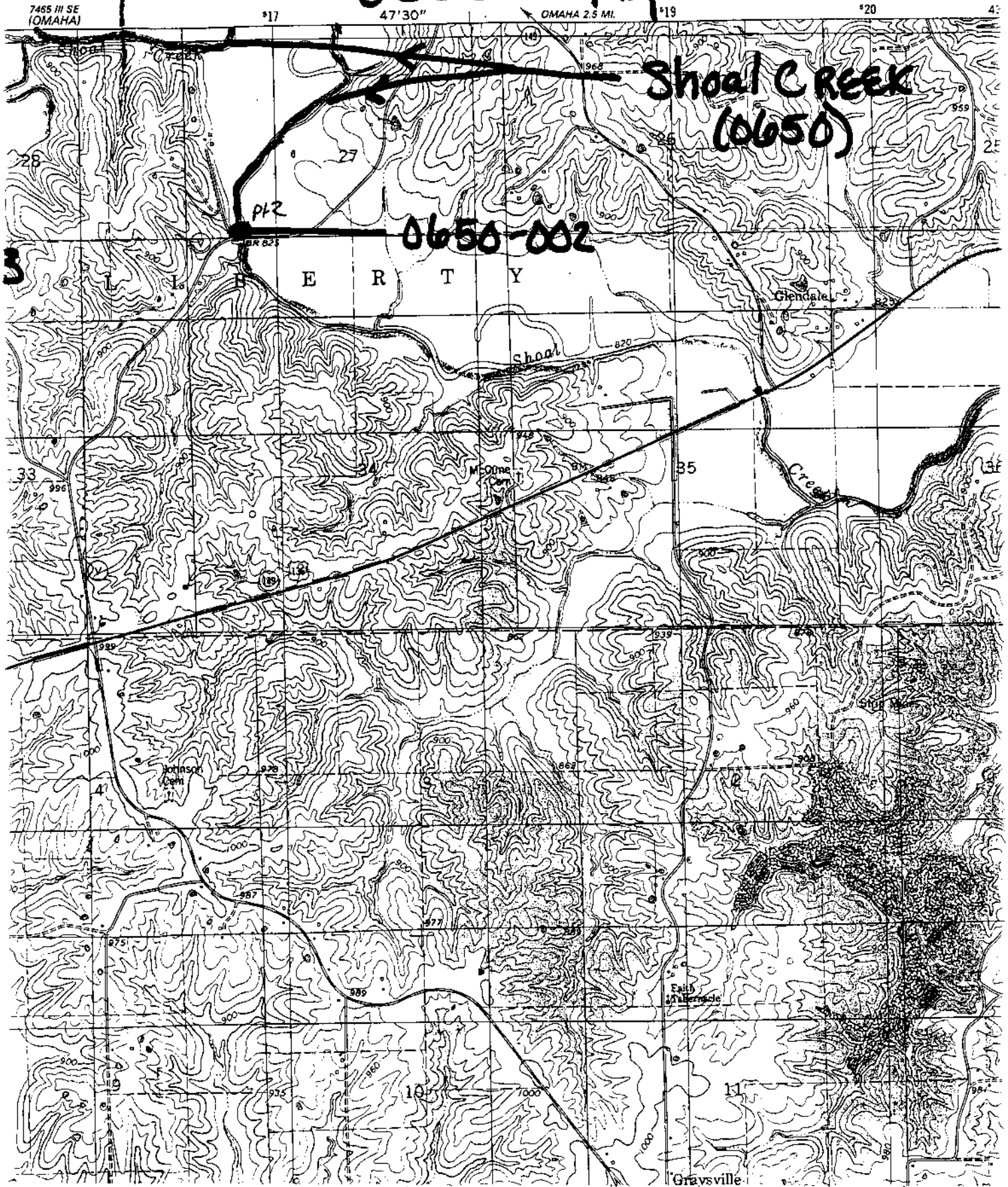
Signed: A. Marshans Date: 7-7-05



Shoal Cr. (Upper)  
0650

Map #2

GRAYSVILLE QUAD  
MISSOURI  
7.5 MINUTE SERIES (TOP  
NE/4 GREEN CITY 15' QUAD)



# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Dave Dandy #  
Amber Marshaus  
Gm

Missouri WBID #: 0650-1	Site Location Description: Shonl Creek (upper)	
Site GPS Coordinates: 40.52779N/92.83525W	Facility Name:	
Date & Time: 7-6-01 @ 3:30P	Permit Number:	
Personnel: DD, AM	Weather Conditions for Past 7 days: Some Rain, Hot, Humid	
Current Weather Conditions: Hot, Humid, Pt. Cloudy	Photo Ids: Upstream: 0650U1 Downstream: 0650D1 Other:	

### Uses Observed\*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input checked="" type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: Somewhat wooded around banks	

### Evidence of Human Use\*

<input checked="" type="checkbox"/> Roads Bridge	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input checked="" type="checkbox"/> Other: Firework trash				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two - WBID # 0650: -01 *Am*

### Stream Morphology:

#### Upstream View Physical Dimensions:

*Run # 2*  
*W: 50*  
*L: 25*  
*Average Depth: 3'*  
*max depth: 4'*

<input checked="" type="checkbox"/> Riffle	Width (ft): <u>20</u>	Length (ft): <u>30</u>	Avg. Depth (ft): <u>&lt;0.1</u>	Max. Depth (ft): <u>0.5</u>
<input checked="" type="checkbox"/> Run	Width (ft): <u>35</u>	Length (ft): <u>45</u>	Avg. Depth (ft): <u>3.5</u>	Max. Depth (ft): <u>4</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec):	

#### Downstream View Physical Dimensions:

<input checked="" type="checkbox"/> Riffle	Width (ft): <u>6</u>	Length (ft): <u>18</u>	Avg. Depth (ft): <u>1/2'</u>	Max. Depth (ft): <u>1'</u>
<input checked="" type="checkbox"/> Run	Width (ft): <u>35</u>	Length (ft): <u>35</u>	Avg. Depth (ft): <u>2</u>	Max. Depth (ft): <u>4</u>
<input checked="" type="checkbox"/> Pool	Width (ft): <u>6</u>	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec):	

#### Substrate\*: (These values should add up to 100%.)

<u>5</u> % Cobble	<u>15</u> % Gravel	<u>40</u> % Sand	<u>40</u> % Silt	% Mud/Clay	% Bedrock
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#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

*Hydric Vegetation, wooded w/ Aquatic trees (on bank)*  
*5% algae in channel*

#### Water Characteristics\*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <i>Clear to light green</i>
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach additional comments (including information from interviews) to this form.

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: A. Marshaw Date: 7-7-05

Organization: SWCP Position: SSI



0650\_001\_US



0650\_001\_DS



# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Dave Dowdy &  
Amber Marshaus

Missouri WBID #: 065012 (last point)	Site Location Description: Shool creek (upper)	
Site GPS Coordinates: 40.49039 N 12.8052 W		
Date & Time: 7-6-05 @ 4:20p	Facility Name:	
Personnel: DD, AM	Permit Number:	
Current Weather Conditions: mid 80's clear humid	Weather Conditions for Past 7 days: some rain, hot humid	
Photo Ids: Upstream: 065002	Downstream: 065002	Other:

### Uses Observed\*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

### Evidence of Human Use:

<input checked="" type="checkbox"/> Roads & bridges	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two - WBID # 0650-02

### Stream Morphology:

#### Upstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>35</u>	Length (ft): <u>85</u>	Avg. Depth (ft): <u>3</u>	Max. Depth (ft): <u>4</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec):		

#### Downstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>35</u>	Length (ft): <u>150</u>	Avg. Depth (ft): <u>1.5</u>	Max. Depth (ft): <u>3</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec):		

#### Substrate\*: (These values should add up to 100%.)

% Cobble	<u>5</u>	% Gravel	<u>60</u>	% Sand	<u>35</u>	% Silt	% Mud/Clay	% Bedrock
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#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

<u>Hydric Plants &amp; grasses. Trees along banks</u> <u>51% algae in channel</u>
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#### Water Characteristics\*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>Clear to light green</u>
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: A. Marshaw Date: 7/7/05

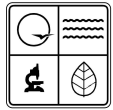
Organization: SWCP Position: SSI

0650\_002\_US



0650\_002\_DS





Missouri  
Department of  
Natural Resources

Use Attainability Analysis

for

WBID 0650 Lower Shoal Creek

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources  
Water Protection Program

RECEIVED  
JUL 12 2005  
WATER PROTECTION PROGRAM

Field Data Sheets for Recreational Use Stream Surveys

**Data Sheet A - Water Body Identification**

Water Body Name (from USGS 7.5' quad):	Shoal Creek (Lower)
8-digit HUC:	10280201
Missouri WBID #:	0650
County:	Putnam
Upstream Legal Description:	NW 1/4, SW 1/4, Sec. 31, T66N, R16W
Downstream Legal Description:	SW 1/4, NW 1/4, Sec. 4, T65N, R16W
Upstream Coordinates:	N/A
Downstream Coordinates:	40.47146N / 92.72548W FOM: 15.5
Discharger Facility Name(s):	
Discharger Permit Number(s):	
Number of Sites Evaluated:	① (Furthest DS.) (2 upstream) (3 total)
Name of Surveyor and Telephone Number:	Dave Dowdy
Organization:	SWCP
Position:	SS III

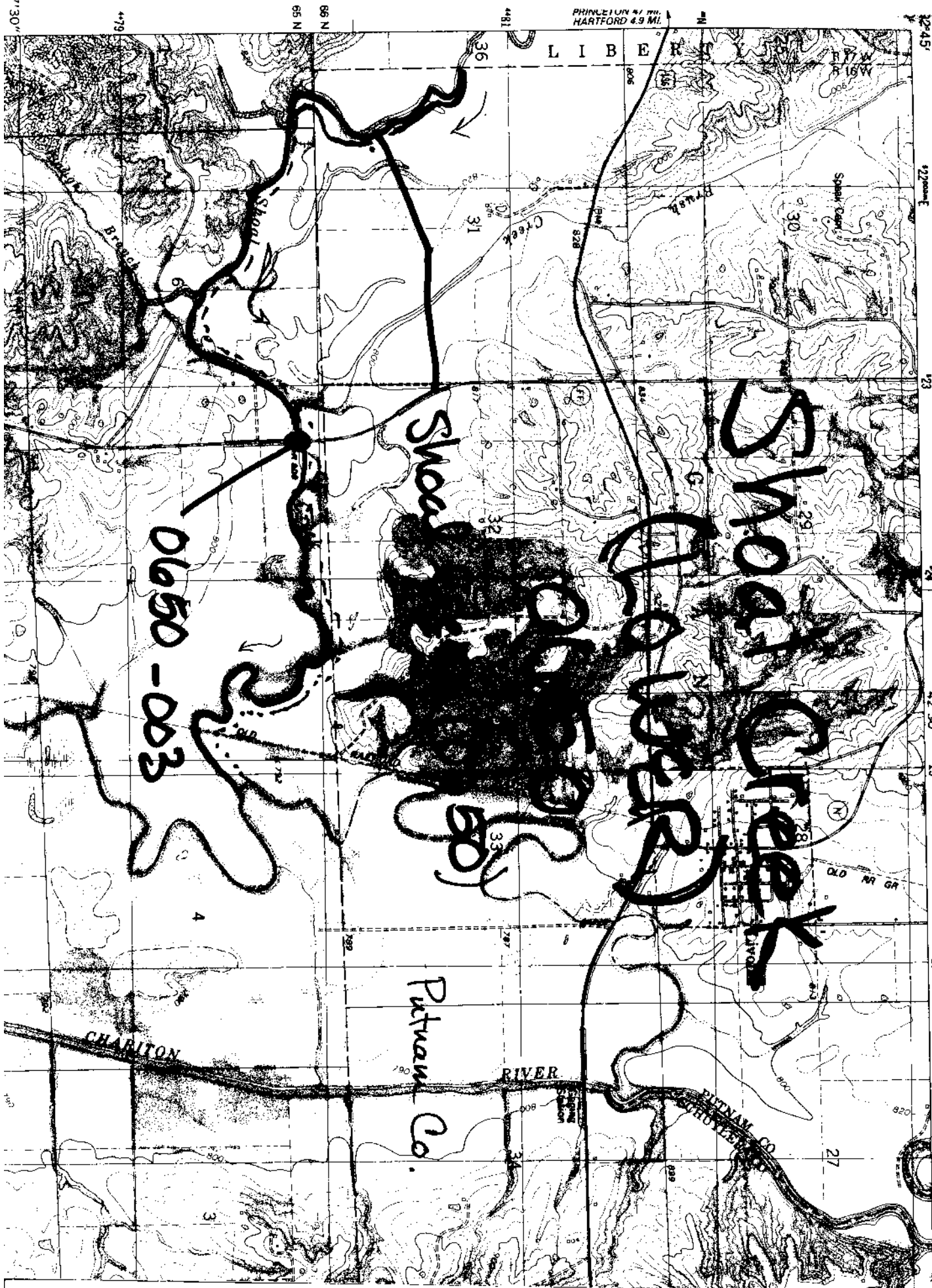
I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: G. Marshall Date: 7-7-05

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



7468 H SW  
(COATSVILLE)





# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 0650-03	Site Location Description: Shoal Creek (Lower)
Site GPS Coordinates: 40°47'14"N / 92°72'54"W	
Date & Time: 7-6-05 @ 5 pm	Facility Name:
Personnel: DD, AM	Permit Number:
Current Weather Conditions: mid 80's humid, clear	Weather Conditions for Past 7 days: SOME RAIN, HOT, HUMID
Photo Ids: Upstream: 0650U1	Downstream: 0650D1 Other:

### Uses Observed\*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: Farmland	

### Evidence of Human Use\*:

<input checked="" type="checkbox"/> Roads Hwy FF	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input checked="" type="checkbox"/> Other: Shops on Streambank				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two - WBID # 0660 : - 03

### Stream Morphology:

#### Upstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>40</u>	Length (ft): <u>65</u>	Avg. Depth (ft): <u>1.5</u>	Max. Depth (ft): <u>3.5</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec):		

#### Downstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>45</u>	Length (ft): <u>85</u>	Avg. Depth (ft): <u>1.5</u>	Max. Depth (ft): <u>3.5</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec):		

#### Substrate\*: (These values should add up to 100%.)

<u>1</u> % Cobble	% Gravel	<u>30</u> % Sand	<u>70</u> % Silt	% Mud/Clay	% Bedrock
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#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

possibly from bridge  
hydraic plants & trees along bank, grasses

#### Water Characteristics\*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear to murky	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach additional comments (including information from interviews) to this form.

Fe deposition on bank, minnows, wild life watering

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Organization: SWCP Position: SS - I

0650\_003\_US



0650\_003\_DS

